UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,510	05/24/2006	Lothar Volkl	06038	6279
23338 7590 03/03/2009 DENNISON, SCHULTZ & MACDONALD 1727 KING STREET SUITE 105 ALEXANDRIA, VA 22314			EXAMINER	
			EIDE, HEIDI MARIE	
			ART UNIT	PAPER NUMBER
			3732	
			MAIL DATE	DELIVERY MODE
			03/03/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commence	10/576,510	VOLKL ET AL.				
Office Action Summary	Examiner	Art Unit				
	HEIDI M. EIDE	3732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 14 No.	ovember 2008					
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
'=	/ 					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
	Claim(s) <u>13-26</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>13-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 23, 20008 has been entered.

Claim Objections

1. Claim 14 is objected to because of the following informalities: It is believed that "splitting the base plate with duplicate mounted thereon to obtaining model sections which comprise the duplicate sections" is in error for -- splitting the base plate with the duplicate mounted thereon to obtain model sections which comprise the duplicate sections--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 16 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 16 and 26 recite the limitation "the casting" in line 2 of each of the claims. There is insufficient antecedent basis for this limitation in the claims.

Application/Control Number: 10/576,510 Page 3

Art Unit: 3732

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 13-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guiot et al. 6,287,121 (Guiot) in view of Burger 4,767,330.
- 4. Re claim 13, Guiot teaches a process for determining the form of a duplicate of a residual tooth area which is to be fitted with a dental restoration, in which duplicate sections to be fitted with the restoration and/or duplicate sections determining their design are removed from the duplicate and form data to be allocated to the forms of the sections is determined and stored in a computer, by means of which the form of the restoration is calculated taking into consideration the spatial allocation of the duplicate sections and further comprising individually referencing the duplicate sections as to spatial allocation to each other in a referencing stored in the computer (col. 3, II. 34-43, 61-65), wherein measuring the duplicate sections is performed by placing each section to be measured separately into a holding device and determining with a second geometry of the section and the referencing allocated to the section (col. 9, II. 12-17, col. 10, II. 21-25, col. 12, II. 10-12) as illustrated in fig. 5. As to claims 14 and 17, Guiot further teaches the duplicate is split apart for obtaining the duplicate sections (col. 3, II. 23-35), and the duplicate sections are measured taking into consideration references (col. 3, II. 61-65). As to claims 15-16 and 26, Guiot teaches the duplicate/casting is

Art Unit: 3732

directly provided with references, the references being characteristics of the teeth and are produced when making the casting (col. 2, II.51-53), the references being specific characteristics of the teeth and matching the data which correspond to the references of the individual model sections with the references data stored in the computer (col. 3, II. 61-65) and fabrication of the dental restoration under consideration of the form data and the data gained by matching (col. 5, II. 46-47). Guiot does not teach referencing the duplicate sections independent of the duplicate, the process of making the casting, using the markings, which are lines formed on the side of the base plate as references, grinding the underside of the duplicate, attaching the base plate such that the duplicate is spaced on all sides from an edge of the base plate and using the texture of the base plate as references. Burger teaches referencing the duplicate sections independent of the duplicate (col. 5, II. 45-50). Burger further teaches taking a casting of at least one of the residual tooth areas comprising parts of the jaw, fabricating the duplicate by filling the casting with plaster, mounting the duplicate on a base plate having references thereon, splitting the base plate with duplicate mounted thereon to obtain model sections which comprise the duplicate sections as illustrated in fig. 1 (col. 1. II. 15-16, col. 4, II. 16-23). As to claims 18-20, Burger further teaches using the markings, which are lines formed on the edges of the sections as illustrated in fig. 1, of the base plate as references (col. 5, II. 45-50). As to claim 21, Burger teaches the process comprising surface grinding the duplicate underside and attaching the underside to a planar surface of the base plate following a tooth arc (col. 4, II. 16-20). Burger teaches the duplicate is attached to the base plate in such a way that the duplicate is spaced on all sides from

Application/Control Number: 10/576,510 Page 5

Art Unit: 3732

the edge of the base plate, a longitudinal wall running along the duplicate, a texture such as a wave-shaped or zigzag geometry as illustrated in fig. 1 and using the intersections of the wave-shaped or zigzag geometry are as references (col. 5, II. 45-50). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Guiot in view of Burger as an obvious matter of design choice as a known means of making a duplicate and in order to facilitate position on the segments relative to the base plate as taught by Burger (col. 3, I1.30-33).

Response to Arguments

5. The applicant argues that the improvement of the claimed invention comprising individually referencing the duplicate sections as to spatial allocation to each other in a reference stored in a computer and which is independent of the duplicate. Guiot, however, teaches the invention as claimed except for independently referencing the duplicate sections. Burger was used to teach this limitation. Applicant argues that this limitation is not taught by Burger, however, Burger clearly teaches this limitation as discussed in col. 5, II. 45-50. Burger teaches the duplicate sections are referenced with respect to the base plate and do not require referencing the sections with respect to the duplicate in order to locate the position of the duplicate section

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HEIDI M. EIDE whose telephone number is (571)270-3081. The examiner can normally be reached on Mon-Thurs.

Art Unit: 3732

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached on 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Heidi Eide Examiner Art Unit 3732 /John J Wilson/ Primary Examiner Art Unit 3732

/Heidi M Eide/ Examiner, Art Unit 3732

2/26/2009